JC03 Reg'd PCT/PTO 27 MAY 2005

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) **CONCERNING A FILING UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

4684-024

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

10/536863

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE

PCT/KR2003/002606

November 28, 2003

November 28, 2002

TITLE OF INVENTION

MICROPUMP AND CELL CULTURE UNIT UTILIZING GAS GENERATION AND

PRODUCTION METHOD THEREOF											
APF	LICA	ANT(S) FOR DO/EO/US									
Seung Seob LEE; Yo Han CHOI; Sanguk SON											
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:											
1.	\boxtimes	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.									
2.		his is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.									
3.	\boxtimes	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) as indicated below.									
4.		The US has been elected (Article 31).									
5.	\boxtimes	A copy of the International Application as filed (35 U.S.C. 371(c)(2))									
		a. is transmitted hereto (required only if not communicated by the International Bureau).									
		b. 🛭 has been communicated by the International Bureau.									
İ		c. is not required, as the application was filed in the United States Receiving Office (RO/US)									
6.	\boxtimes	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).									
		a. 🛛 is attached hereto.									
		b. has been previously submitted under 35 U.S.C. 154(d)(4).									
7.		Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))									
		a. are attached hereto (required only if not communicated by the International Bureau).									
		b. have been communicated by the International Bureau.									
	•	c. have not been made; however, the time limit for making such amendment has NOT expired.									
		d. have not been made and will not be made.									
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).									
9.	\boxtimes	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).									
10.		An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).									
Item	s 11	to 20 below concern document(s) or information included:									
11.		An Information Disclosure Statement under 37 CFR 1.97 and 1.98.									
12.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.									
13.	\boxtimes	A preliminary amendment.									
14.	\boxtimes	An Application Data Sheet under CFR 1.76									
15.		A substitute specification.									
16.		A power of attorney and/or change of address letter.									
17.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821–1.825									
18.		A second copy of the published international application under 35 U.S.C. 154(d)(4)									
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4)									
	Ø	er items or information: Front Page of WO 2004/048254 A1									

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U.S. APPLICATIO	N NO. (if known, see	37 CFR 1.5)	INTERN	INTERNATIONAL APPLICATION NO.			ATTORNEY'S DOCKET NUMBER				
1	10/536	46	84-024								
The following fees	are submitted:		CALCU	ILATIONS	PTO USE ONLY						
21. 🛛 Basic nati	ional fee	o [\$	300.00							
22. Examinati If International PCT Article All other situati	preliminary examinat e 33(1)-(4)	of 0 0	\$ 200.00								
an Interna	7 CFR 1.445(a)(2)) h tional Search Author earch Report prepare	0	\$ 500.00								
All other situations\$ 500.00 TOTAL OF 21, 22 and 23 =								\$1,000.00			
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof											
Total Sheets			Number of each additional 50 or fraction thereof (round up to a whole number			<u> </u>					
- 100 =	/50 =		× \$250.00				\$				
Surcharge of \$130 priority date (37 Cl).00 for fumishing the FR 1.492(e)).	ed	\$								
CLAIMS		JMBER FILED		NUMBER EXTRA	RATE		<u> </u>		1		
Total Claims	 i	8 - 20 =		0	× \$ 50.00		\$		<u> </u>		
Independent Clai	ms	3	- 3=	0	× \$200.		\$		1		
1 .	NDENT CLAIM(S) (if	00	\$								
i		s =	\$	1,000.00							
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by ½.								500.00)			
SUBTOTAL =								500.00			
Processing fee of \$130.00 for furnishing the English translation later than the 30 months from the earliest claimed priority date (37 CFR 1.492(f)).								0.00			
TOTAL NATIONAL FEE =								500.00			
Fee for recording t	the enclosed assignmer of the enclosed assignment of the enclosed assignmen	y +	\$	0.00							
		D =	\$	500.00							
		İ	Amount to be refunded:								
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a.	in the amount of \$.00 to co	ver the abo	ove fees is endosed.							
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c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-1337. A duplicate copy of this sheet is enclosed.											
c. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.											
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status. Kindly use the attorneys' address associated with the following Customer Number for future correspondence.											
SEND ALL CO	RRESPONDEN	CE TO:						,	<u> </u>		
	MAN & BERNE				/]		1	//			
1700 Diagonal Alexandria, VA	Road, Suite 300			Customer /		//	[3/			
(703) 684-111		I Hauntman									
			P	ATENT TRADEMARK OFFICE	NAME		n J. Hauptman				
) RATIO	ON NUMBER								